journal of magnetism and magnetic materials

Author index to volume 111

Altounian, Z., see X. Chen 111 (1992) 130
Amado, M.A., see J.B. Sousa 111 (1992) 239
Aroca, C., E. López, M.C. Sánchez and P. Sánchez, Kinetics of the domain wall stabilization 111 (1992) 19
Artman, J.O., see J. Nakamura 111 (1992) 63

Bader, S.D., see C. Liu 111 (1992) L225
Bara, J.J., B.F. Bogacz, A. Kowalczyk and A. Wrzeciono, Crystal and magnetic properties of $Y_2(Fe_{1-x}M_x)_{14}B$ (M=Cu or Cr) compounds 111 (1992) 39
Barnaś, J., Coupling between two ferromagnetic films through a non-magnetic metallic layer (*Letter to the Editor*) 111 (1992) L215
Bartashevich, M.I., T. Goto and M. Yamaguchi, Field induced magnetic phase transition and magnetostriction in $ErCo_3$, $HoCo_3$ and Nd_2Co_7 single crystals 111 (1992) 83
Bennett, L.H., see R.D. McMichael 111 (1992) 29
Berkov, D.V., On the concept of the magnetic viscosity: analytical expression for the time dependent magnetization 111 (1992) 327
Berzhansky, V.N., see I.S. Edelman 111 (1992) 171
Bogacz, B.F., see J.J. Bara 111 (1992) 39
Boltich, E.B., see L.Y. Zhang 111 (1992) 75
Bombik, A., see H. Rej 111 (1992) 47
Bombik, A., see J. Krok-Kowalski 111 (1992) 50
Braga, M.E., see J.B. Sousa 111 (1992) 239
Bratsberg, H., see G. Helgesen 111 (1992) 5

Charles, S.W., see S. Itoh 111 (1992) 56
Chen, D.-X., C.F. Conde, H. Miranda and A. Conde, Room-temperature Perminvar effect and wide domain walls in nearly-zero magnetostrictive amorphous ribbons 111 (1992) 135
Chen, X., L.X. Liao, Z. Altounian, D.H. Ryan and J.O. Ström-Olsen, Structures and magnetocrystalline anisotropies of $NdFe_{10}Mo_2N_{0.5}$ and $NdFe_{10}V_2N$ 111 (1992) 130
Chen, Y.S., see T.S. Chin 111 (1992) 177
Chetverikov, A.V., see E.A. Rozenberg 111 (1992) 11
Chevalier, B., see J.B. Sousa 111 (1992) 239
Chin, T.S., S.H. Huang and Y.S. Chen, Magnetic properties of Nd–Fe–Ti–B alloys with $NdFe_{11}Ti$ and/or $Nd_2Fe_{14}B$ phases 111 (1992) 177
Collier, I.T., M.R.J. Gibbs and N. Seddon, Laser ablation and mechanical scribing in the amorphous alloys VAC 6030 and METGLAS 2605 SC 111 (1992) 260
Conde, A., see D.-X. Chen 111 (1992) 135
Conde, C.F., see D.-X. Chen 111 (1992) 135
Cordes, S., see J. Kohlhepp 111 (1992) L231
Crangle, J., A. Fogarty and M.J. Taylor, Weak ferromagnetism in 'non-magnetic' austenitic stainless steel 111 (1992) 255

Da Silva, E.Z., see C.A. Kuhnen 111 (1992) 95
De Figueiredo, R.S., see C.A. Kuhnen 111 (1992) 95
Drago, V., see C.A. Kuhnen 111 (1992) 95
Dubenko, I.S., R.Z. Levitin and A.S. Markosyan, Lutetium "paradox" in the series of intermetallic compounds RCo_2 (R is a heavy rare earth or yttrium) 111 (1992) 146
Dubowik, J., see Yu.V. Kudryavtsev 111 (1992) 1

Edelman, I.S., G.G. Vasiljev, V.N. Berzhansky and V.E. Petrov, Longitudinal Kerr effect in Ne^+ implanted garnet films 111 (1992) 171
Elmers, H.J., see J. Kohlhepp 111 (1992) L231
Endoh, Y., see S. Itoh 111 (1992) 56
Etourneau, J., see J.B. Sousa 111 (1992) 239

Fedosyuk, V.M., see E.A. Vasilyev 111 (1992) 34
Fidler, J., see T. Schrefl 111 (1992) 105
Fogarty, A., see J. Crangle 111 (1992) 255
Folkerts, W. and S.T. Purcell, Antiferromagnetically coupled multilayer systems: magnetization curves in the case of unequal thicknesses of the magnetic layers 111 (1992) 306

Gawior, W. and M. Woch, Magnetic aftereffect of $Fe_{73.5}Cu_1Nb_3Si_{13.5}B_9$ alloy in amorphous and nanocrystalline state 111 (1992) 90
Gibbs, M.R.J., see I.T. Collier 111 (1992) 260
Givord, D., J.P. Nozières, J.L. Sánchez Llazamares and F. Leccabue, Magnetization and anisotropy in the hard ferromagnetic phase observed in $Nd_{100-x}Fe_x$ ($x > 25$) as-cast alloys 111 (1992) 164
Goto, T., see M.I. Bartashevich 111 (1992) 83
Gradmann, U., see J. Kohlhepp 111 (1992) L231
Groń, T., J. Kopyczok, I. Okońska-Kozłowska and J. Warczewski, Seebeck effect

in the antiferromagnetic single crystals of $ZnCr_{2-x}In_xSe_4$ ($0.0 < x < 0.15$) 111 (1992) 53
Grössinger, R., see M. Katter 111 (1992) 293
Grundy, P.J., see M.E. Tomlinson 111 (1992) 79

Helgesen, G., A.T. Skjeltorp and H. Bratsberg, Antiferromagnetic phase transition in $Nd(OH)_3$ 111 (1992) 5
Ho, K.-Y. and X.-Y. Xiong, On the relation between in-plane anisotropy and technical magnetic properties of as-quenched amorphous alloy ribbons 111 (1992) 71
Hofmann, B., see T. Reininger 111 (1992) L220
Honda, S., Y. Ikegawa and T. Kusuda, Magnetostatic energy and magnetization process in multilayers with perpendicular anisotropy 111 (1992) 273
Huang, S.H., see T.S. Chin 111 (1992) 177

Ikegawa, Y., see S. Honda 111 (1992) 273
Itoh, S., Y. Endoh and S.W. Charles, Polarized neutron studies of ferrofluids 111 (1992) 56
Ivanov, V., see L. Vinokurova 111 (1992) L235

Kasyutich, O.I., see E.A. Vasilyev 111 (1992) 34
Katter, M., J. Wecker, C. Kuhrt, L. Schultz, X.C. Kou and R. Grössinger, Structural and intrinsic magnetic properties of $(Sm_{1-x}Nd_x)_2Fe_{17}N_{\approx 2.7}$ and $(Sm_{1-x}Nd_x)_2(Fe_{1-z}Co_z)_{17}N_{\approx 2.7}$ 111 (1992) 293
Khartsev, S.I., L.I. Medvedeva and E.A. Zavadskii, Magnetic phase transformations in nonstoichiometric iron phosphide 111 (1992) 189
Kohlhepp, J., S. Cordes, H.J. Elmers and U. Gradmann, Oscillating indirect coupling of perpendicular magnetized Co(111)-monolayers through Cu(111) (*Letter to the Editor*) 111 (1992) L231
Kopyczok, J., see J. Krok-Kowalski 111 (1992) 50
Kopyczok, J., see T. Groń 111 (1992) 53
Kou, X.C., see M. Katter 111 (1992) 293
Kowalczyk, A., see J.J. Bara 111 (1992) 39
Krok-Kowalski, J., J. Warczewski, T. Mydlarz, A. Pacyna, A. Bombik, J. Kopyczok and I. Okońska-Kozłowska, Magnetic properties of the single crystals of $ZnCr_{2-x}In_xSe_4$ ($0.0 < x < 0.15$) 111 (1992) 50
Kronmüller, H., see T. Reininger 111 (1992) L220
Kudryavtsev, Yu.V., I.N. Mishchenko and J. Dubowik, Application of magnetooptical spectroscopy for investigation of spin fluctuations in Fe_2P above its Curie temperature 111 (1992) 1
Kuhnen, C.A., R.S. de Figueiredo, V. Drago and E.Z. da Silva, Mössbauer studies and electronic structure of γ'-Fe_4N 111 (1992) 95
Kuhrt, C., see M. Katter 111 (1992) 293
Kusuda, T., see S. Honda 111 (1992) 273
Kusz, J., see H. Rej 111 (1992) 47

Lan, J.-s., see Y.-h. Liu 111 (1992) 123
Le Gal, G. and F. Varret, Magnetic texture in metallic amorphous wires studied by Mössbauer spectrometry 111 (1992) 115
Leccabue, F., see D. Givord 111 (1992) 164
Levitin, R.Z., see I.S. Dubenko 111 (1992) 146
Liao, L.X., see X. Chen 111 (1992) 130
Liu, C., Y. Park and S.D. Bader, Resistance minimum in ultrathin ferromagnetic films of Fe on MgO(100) (*Letter to the Editor*) 111 (1992) L225
Liu, Y.-h., X.-d. Ma, J.-s. Lan and H. Wang, Magnetic properties of compositionally modulated FeSi/Cu films 111 (1992) 123
López, E., see C. Aroca 111 (1992) 19
Lord, D.G., see M.E. Tomlinson 111 (1992) 79

Ma, X.-d., see Y.-h. Liu 111 (1992) 123
Malmhäll, R., see J. Nakamura 111 (1992) 63
Malyugin, D.V., The electromagnetic wave resonant reemission by a conductive magnetostrictive plate 111 (1992) 23
Markosyan, A.S., see I.S. Dubenko 111 (1992) 146
McMichael, R.D., R.D. Shull, L.J. Swartzendruber, L.H. Bennett and R.E. Watson, Magnetocaloric effect in superparamagnets 111 (1992) 29
Medvedeva, L.I., see S.I. Khartsev 111 (1992) 189
Miranda, H., see D.-X. Chen 111 (1992) 135
Mishchenko, I.N., see Yu.V. Kudryavtsev 111 (1992) 1
Mydlarz, T., see J. Krok-Kowalski 111 (1992) 50

Nakamura, J., J.O. Artman, R. Malmhäll, M. Takahashi, M. Ojima and K. Shimazaki, Anomalous torque curves in PtCo/TbFeCo exchange-coupled bilayer films 111 (1992) 63
Nozières, J.P., see D. Givord 111 (1992) 164
Nugmanov, A.I. and L.R. Tagirov, Crystal-field effect on magnetic ordering temperature of collinear antiferromagnet 111 (1992) 301

Ojima, M., see J. Nakamura 111 (1992) 63
Okońska-Kozłowska, I., see J. Krok-Kowalski 111 (1992) 50
Okońska-Kozłowska, I., see T. Groń 111 (1992) 53
Oleś, A., see H. Rej 111 (1992) 47

Pacyna, A., see J. Krok-Kowalski 111 (1992) 50
Park, Y., see C. Liu 111 (1992) L225
Petrov, V.E., see I.S. Edelman 111 (1992) 171
Pinot, M., see H. Rej 111 (1992) 47
Pinto, R.P., see J.B. Sousa 111 (1992) 239
Pollard, R.J., see M.E. Tomlinson 111 (1992) 79
Purcell, S.T., see W. Folkerts 111 (1992) 306

Radwan, A.E., MHD instability of a streaming jet having a solid mantle acted upon by a transverse magnetic field 111 (1992) 313
Reininger, T., B. Hofmann and H. Kronmüller, Magnetization processes in nanocrystalline ferromagnets (*Letter to the Editor*) 111 (1992) L220

Rej, H., A. Bombik, J. Kusz, A. Oleś, M. Pinot and J. Warczewski, Exchange interactions in the helimagnetic spinel solid solutions $Zn_{1-x}Ga_{2x/3}Cr_2Se_4$ (where $0.0 < x < 0.5$) 111 (1992) 47
Richter, H.J., On the construction of detection coils for a vectorial vibrating sample magnetometer 111 (1992) 201
Rozenberg, E.A. and A.V. Chetverikov, Peculiarities of the fluctuational aftereffect following first order magnetostructural phase transition in (Fe,Ni)Rh alloy 111 (1992) 11
Rudowicz, C. and Y.-y. Zhou, Microscopic study of Cr^{2+} ion in the quasi-2D mixed system $Rb_2Mn_xCr_{1-x}Cl_4$ 111 (1992) 153
Ryan, D.H., see X. Chen 111 (1992) 130

Saiko, A.P., see E.A. Vasilyev 111 (1992) 34
Salgueiro Silva, M., see J.B. Sousa 111 (1992) 239
Sánchez, M.C., see C. Aroca 111 (1992) 19
Sánchez, P., see C. Aroca 111 (1992) 19
Sánchez Llazamares, J.L., see D. Givord 111 (1992) 164
Schrefl, T. and J. Fidler, Numerical simulation of magnetization reversal in hard magnetic materials using a finite element method 111 (1992) 105
Schultz, L., see M. Katter 111 (1992) 293
Seddon, N., see I.T. Collier 111 (1992) 260
Shimazaki, K., see J. Nakamura 111 (1992) 63
Shull, R.D., see R.D. McMichael 111 (1992) 29
Sirota, D.I. and A.F. Zhuravlev, Nonlinear acoustic modulating instability of magnetic bubbles 111 (1992) 186
Skjeltorp, A.T., see G. Helgesen 111 (1992) 5
Snigirev, O.V., A.M. Tishin and A.V. Volkozub, Magnetic phase transitions in erbium 111 (1992) 149
Sousa, J.B., M.A. Amado, R.P. Pinto, M. Salgueiro Silva, M.E. Braga, B. Chevalier and J. Etourneau, Transport properties and magnetic phases of $NdRu_2Si_2$ 111 (1992) 239
Srinivasan, G., see B. Uma Maheshwar Rao 111 (1992) 249
Ström-Olsen, J.O., see X. Chen 111 (1992) 130
Swartzendruber, L.J., see R.D. McMichael 111 (1992) 29
Szytuła, A., see L. Vinokurova 111 (1992) L235

Tagirov, L.R., see A.I. Nugmanov 111 (1992) 301
Takahashi, M., see J. Nakamura 111 (1992) 63
Taylor, M.J., see J. Crangle 111 (1992) 255
Tishin, A.M., see O.V. Snigirev 111 (1992) 149
Tkachenko, T.M., see E.A. Vasilyev 111 (1992) 34
Tomlinson, M.E., R.J. Pollard, D.G. Lord and P.J. Grundy, Giant magnetoresistance in sputter deposited Co/Cu multilayer systems 111 (1992) 79

Uma Maheshwar Rao, B. and G. Srinivasan, Magnetization and ferromagnetic resonance studies on rf sputtered amorphous $BiFeO_3$–$CuFe_2O_4$ compounds 111 (1992) 249

Varret, F., see G. Le Gal 111 (1992) 115
Vasiljev, G.G., see I.S. Edelman 111 (1992) 171
Vasilyev, E.A., T.M. Tkachenko, V.M. Fedosyuk, O.I. Kasyutich and A.P. Saiko, Investigation of perpendicular magnetic anisotropy in Co–Fe–P/Cu multilayers by Mössbauer effect 111 (1992) 34
Vinokurova, L., V. Ivanov and A. Szytuła, High-field magnetization in $RCoSi_2$ compounds (R=Tb, Dy, Ho) (*Letter to the Editor*) 111 (1992) L235
Volkozub, A.V., see O.V. Snigirev 111 (1992) 149

Wallace, W.E., see L.Y. Zhang 111 (1992) 75
Wang, H., see Y.-h. Liu 111 (1992) 123
Warczewski, J., see H. Rej 111 (1992) 47
Warczewski, J., see J. Krok-Kowalski 111 (1992) 50
Warczewski, J., see T. Groń 111 (1992) 53
Watson, R.E., see R.D. McMichael 111 (1992) 29
Wecker, J., see M. Katter 111 (1992) 293
Woch, M., see W. Gawior 111 (1992) 90
Wrzeciono, A., see J.J. Bara 111 (1992) 39

Xiong, X.-Y., see K.-Y. Ho 111 (1992) 71

Yamaguchi, M., see M.I. Bartashevich 111 (1992) 83

Zavadskii, E.A., see S.I. Khartsev 111 (1992) 189
Zhang, L.Y., E.B. Boltich and W.E. Wallace, Spin reorientations in the $Cfmm_2$ $Fe_{14-x}Co_xB$ systems 111 (1992) 75
Zhou, Y.-y., see C. Rudowicz 111 (1992) 153
Zhuravlev, A.F., see D.I. Sirota 111 (1992) 186

journal of magnetism and magnetic materials

Subject index to volume 111

Amorphous systems
- alloys 111 (1991) 71
- compounds 111 (1991) 249
- iron alloys 111 (1991) 90
- metallic wires 111 (1991) 115
- Metglas 111 (1991) 260
- RE–TM alloys 111 (1991) 164
- ribbons 111 (1991) 135

Anisotropy 111 (1991) 5, 63, 164, 231, 249, 273, 301
- annealing-induced 111 (1991) 19
- field-dependent 111 (1991) 56
- magnetocrystalline 111 (1991) 83, 130, 153, 293
- measurements 111 (1991) 71
- multilayers 111 (1991) 34

Antiferromagnetism 111 (1991) 235
Antiferromagnets 111 (1991) 301
Austenitic steel 111 (1991) 255

Band structure 111 (1991) 146
- calculated 111 (1991) 95

Capillarity 111 (1991) 313
Coercivity 111 (1991) 105, 164, 177, 220
Compositional modulation 111 (1991) 123
Crystal fields 111 (1991) 153, 239, 301
Crystal structures 111 (1991) 39
Crystallization 111 (1991) 177
Curie temperature 111 (1991) 239
- composition-dependent 111 (1991) 130
- concentration-dependent 111 (1991) 146

Devices
- magnetometers 111 (1991) 201

Domain
- structure 111 (1991) 260, 273
- wall energy density 111 (1991) 273
- wall motion 111 (1991) 19, 123, 220, 306
- walls 111 (1991) 135

Electrical conductivity
- p-type 111 (1991) 53

Electrical resistance 111 (1991) 225, 239
Electromagnetic force 111 (1991) 313
Electromagnetic wave 111 (1991) 23
Electronic structure 111 (1991) 95
Energy barrier distribution 111 (1991) 327
Exchange coupling 111 (1991) 215
Exchange interactions 111 (1991) 47, 63
- antiferromagnetic 111 (1991) 50
- ferromagnetic 111 (1991) 50
- long range 111 (1991) 50
- short range 111 (1991) 50

Ferrofluids
- cobalt particles 111 (1991) 56

Ferromagnetic resonance 111 (1991) 249
Finite element method 111 (1991) 105

Helimagnetic spinel solid solutions 111 (1991) 47,
Hysteresis 111 (1991) 225
Hysteresis loops 111 (1991) 201, 255

Information storage
- magnetic recording media 111 (1991) 201, 327

Intermetallic compounds
- single crystals 111 (1991) 50, 53
- transition metals 111 (1991) 50, 53

Ion implantation 111 (1991) 171
Iron compounds
- interstitial 111 (1991) 95

Kerr effect 111 (1991) 225
- longitudinal 111 (1991) 171

Laser ablation 111 (1991) 260
Low dimensional systems 111 (1991) 153

Magnetic aftereffect 111 (1991) 11, 90
Magnetic bubbles 111 (1991) 186
Magnetic coupling 111 (1991) 231
- antiferromagnetic 111 (1991) 306

Magnetic fields 111 (1991) 313
Magnetic ordering temperature
- Néel temperature 111 (1991) 301

Magnetic phase diagram 111 (1991) 75, 189
Magnetic polarization 111 (1991) 215
Magnetic refrigeration 111 (1991) 29
Magnetic structures 111 (1991) 11, 83, 149
Magnetic viscosity 111 (1991) 327

Magnetization
– dynamic 111 (1991) 1
– field-dependent 111 (1991) 56
– high-field 111 (1991) 235
– hysteresis 111 (1991) 149
– low-temperature 111 (1991) 255
– processes 111 (1991) 19, 71, 164, 189, 220, 260, 273, 306
– reversal 111 (1991) 105
– saturation 111 (1991) 39, 123
– saturation polarization 111 (1991) 293
– temperature-dependent 111 (1991) 50, 83, 130, 164, 249
– vectors 111 (1991) 34
Magneto-optical spectroscopy 111 (1991) 1
Magnetocaloric effects
– temperature-dependent 111 (1991) 29
Magnetoelasticity 111 (1991) 186
Magnetohydrodynamics 111 (1991) 313
Magnetoresistance 111 (1991) 79
Magnetostatic energy 111 (1991) 273
Magnetostriction 111 (1991) 23, 83, 90, 135
Mean-field theory 111 (1991) 47
Mechanical scribing 111 (1991) 260
Metastable phases 111 (1991) 164
Micromagnetism 111 (1991) 105
Microstructure 111 (1991) 177
Microstructures 111 (1991) 79, 105, 220
Monte Carlo simulations 111 (1991) 5
Mössbauer spectroscopy 111 (1991) 34
– interstitial compounds 111 (1991) 95
– metallic wires 111 (1991) 115
– RE–TM compounds 111 (1991) 39
Multilayer systems 111 (1991) 79
Multilayers 111 (1991) 215

Nanocrystalline systems 111 (1991) 90
Nanocrystals 111 (1991) 220
Néel temperature 111 (1991) 239
Neutron scattering
– depolarized 111 (1991) 56
– polarized 111 (1991) 56
Nonlinear acoustics 111 (1991) 186

Penetration effects 111 (1991) 23
Permanent magnets 111 (1991) 105, 177
Permeability
– initial 111 (1991) 90
Perminvar effect 111 (1991) 135
Perovskite-type structure 111 (1991) 95
Phase transitions
– electrical 111 (1991) 53
– field induced 111 (1991) 83
– first order 111 (1991) 11
– magnetic 111 (1991) 5, 11, 47, 83, 149, 189
– n–p type transition 111 (1991) 53
Pressure effect 111 (1991) 189

Rapid quenching technology
– melt-spun 111 (1991) 177
Rare earth–transition metal compounds 111 (1991) 39, 75, 146, 164, 177, 235
– interstitial nitrides 111 (1991) 130, 293
– single crystals 111 (1991) 83
Rare earths
– compounds 111 (1991) 5, 239
– garnets 111 (1991) 29
– metals 111 (1991) 149
– single crystal 111 (1991) 149
RF sputtering 111 (1991) 123, 249

Seebeck effect 111 (1991) 53
Single-ion model 111 (1991) 293, 301
Spin fluctuations 111 (1991) 1
Spin reorientation 111 (1991) 75, 293
Superparamagnets 111 (1991) 29
Susceptibility
– ac 111 (1991) 135, 235
– complex 111 (1991) 135
– low-temperature 111 (1991) 5, 255
– temperature-dependent 111 (1991) 1, 50, 189

Texture 111 (1991) 115
Thermal stability 111 (1991) 293
Thin films 111 (1991) 1, 79, 123, 215, 225
– bilayer systems 111 (1991) 63
– garnets 111 (1991) 171
– monolayers 111 (1991) 231
– multilayer systems 111 (1991) 34
– multilayers 111 (1991) 231, 273, 306
Torque magnetometry 111 (1991) 63